

EHN1 status report

ProtoDUNE-SP ITI Meeting
January 18th, 2018

Cold Box

- APA #2 cold test started on Monday
- Cooldown started around 6:30 pm, completed by noon of the following day
- Reached target temperature of 150 K with a much improved uniformity (~1-2 degrees temperature difference among RTDs during cooldown and <10 degrees at the end) thanks to the inversion of input and output line and the new heater installed last week
- Cold test performed, currently warming up



APA #3 (*first from UK*)

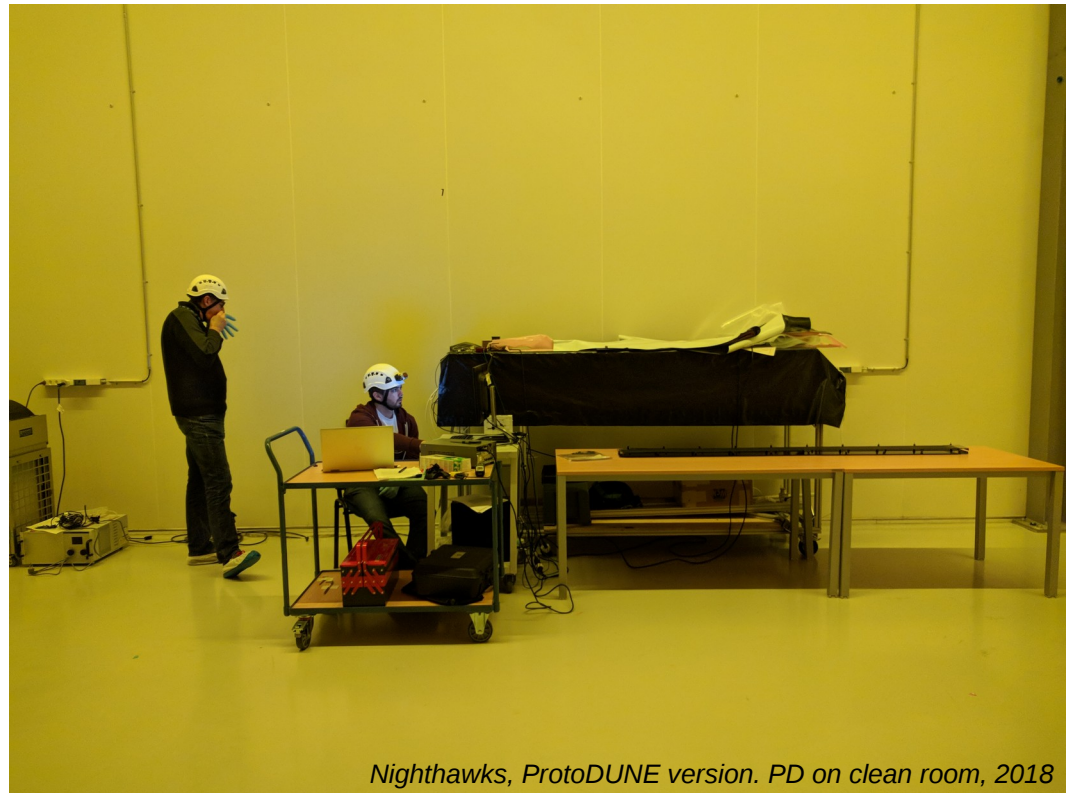
- Arrived at EHN1 Tuesday morning
- Crate opened and yoke tested in the morning, yoke and lifting fixtures installed in the afternoon



- Moved inside the Clean Room on Wednesday morning. Started around 8:30 am, completed by 1:30 pm.
- Use of a single scissor lift slowed down the operation a bit. A second lift has already been inserted in the Clean Room, for the following weeks operations

APA #3 PD system

- Crate with 12 “standard” PD bars arrived on Monday in EHN1
- IU bars testing started Tuesday afternoon (after Cold Box cooldown) and completed Wednesday evening
- Installation of IU bars started this morning, while testing Fermilab bars
- Installation of Fermilab bars foreseen for Friday, with Saturday left for cable work and remaining installation work
- First ARAPUCA bar expected for tomorrow or Monday. Will be tested and installed ASAP



Nighthawks, ProtoDUNE version. PD on clean room, 2018

Miscellaneous

- Installation of cable trays on the cryostat roof started this week
- Letizia received communication no ad-hoc working at heights and scissor lift driving trainings will be organized for us anymore – we will have to rely on the standard classroom found in the CERN CTA catalogue (here the link to the catalogue: <http://safety-training.web.cern.ch/safety-training/>)
- Ad-hoc Confined Space training classes will still be organized for us. We are waiting on the communication of the dates for the first two.
- To answer several requests received in the last weeks, here some deadlines based on the current installation plan:
 - **February 7th, 2018** hard deadline to receive all the material and equipment (PS, cables, connectors, flanges, fibers, etc) necessary to complete, test and readout the first drift volume
 - **March 23rd, 2018** hard deadline for all the material and equipment for the second drift volume